Output Specifications

Remote sense		10 % max. of Vout nom. (trim up value to subtract)
Ripple and noise (20 MHz Bandwidth)	5 VDC models: 12 & 15 VDC models: 24 & 28 VDC models: 48 VDC models:	100 mVp-p max. 125 mVp-p max. 250 mVp-p max. 350 mVp-p max.
Start up time (nominal Vin and constant resistive load)	110 VDC input: Others:	60 ms typ. (at power On or remote On) 25 ms typ. (at power On or remote On)
Transient response (25 % load step change)		200 µs typ.
Output current limitation	110 VDC input: Others:	at 150 % of Iout max. at 110 – 140 % of Iout max.
Over voltage protection		at 115 – 130 % of Vout nom.
Short circuit protection		continuous, automatic recovery.
Capacitive load	5 VDC models: 12 VDC models: 15 VDC models: 24 VDC models: 28 VDC models: 48 VDC models:	30'000 µF max. 5'250 µF max. 3'330 µF max. 1'330 µF max. 960 µF max. 330 µF max.

General Specifications

Temperature ranges	– Operating – Case temperature – Storage		–40°C to +75°C (with derating) +105°C max. –55°C to +125°C
Thermal impedance	– without Heatsink – with Heatsink		6.7 K/W 4.7 K/W
Over temperature protection			at +115°C
Thermal shock, mechanical shock & vibration	– Test conditions		EN 61373:1999, MIL-STD-810F www.tracopower.com/products/mil810.pdf
Humidity (non condensing)			5 – 95 % rel H max.
Reliability, calculated MTBF (MIL-HDBK-217F, at +70°C, ground benign)			336'000 h
Isolation voltage (60sec.)	– Input/Output – Input/Case		2'250 VDC (basic insulation) 1'600 VDC
Isolation capacitance	– Input/Output		2500 pF max.
Isolation resistance	– Input/Output (500 VDC)		>1 GOhm min.
Switching frequency			300 kHz typ. (puls width modulation)
Safety standards	– UL online certification E188913, QQGQ2 – Railway immunity – Cold / dry heat / damp heat cyclic – Certification documents		UL 60950-1 2nd edition + AM1 EN 60950-1:2006 + A11:2009-03 IEC 60950-1(2nd edition) EN 50155:2007 EN 60068-2-1, EN 60068-2-2, EN 60068-2-30 www.tracopower.com/overview/tep75wi
Remote On/Off	– Positive logic (standard) – Negative logic (optional on demand) – Off idle current:	– On: – Off: – On: – Off:	3 to 12 VDC or open circuit 0 to 1.2 VDC or short circuit pin 1 and 3 0 to 1.2 VDC or short circuit pin 1 and 3 3 to 12 VDC or open circuit 3 mA
Environmental compliance	– Reach – RoHS – Flamability identified acc. EN 45545-2		www.tracopower.com/info/reach-declaration.pdf RoHS directive 2011/65/EU www.tracopower.com/info/en45545-declaration.pdf

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

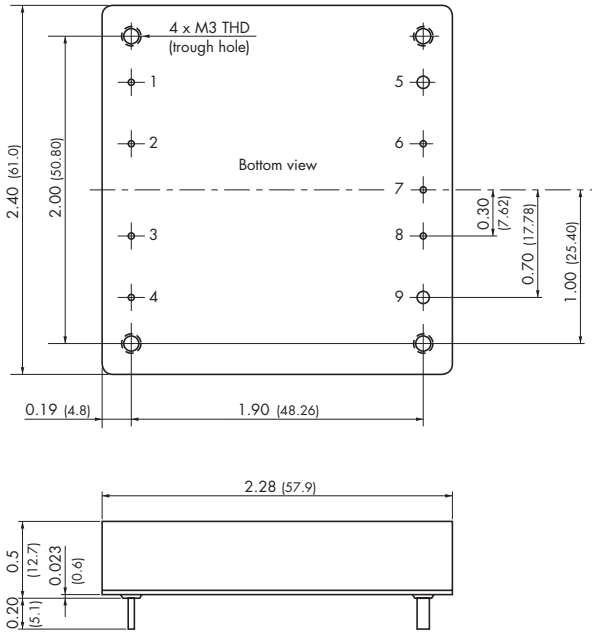
General Specifications

Casing material	24 & 48 VDC input:	metal
	110 VDC input:	aluminium base-plate with plastic casing
Potting material		silicone (UL94V-0 rated)
Base material	24 & 48 VDC input:	FR4

Supporting documents: www.tracopower.com/overview/tep75wi

Dimensions

TEP 75 module



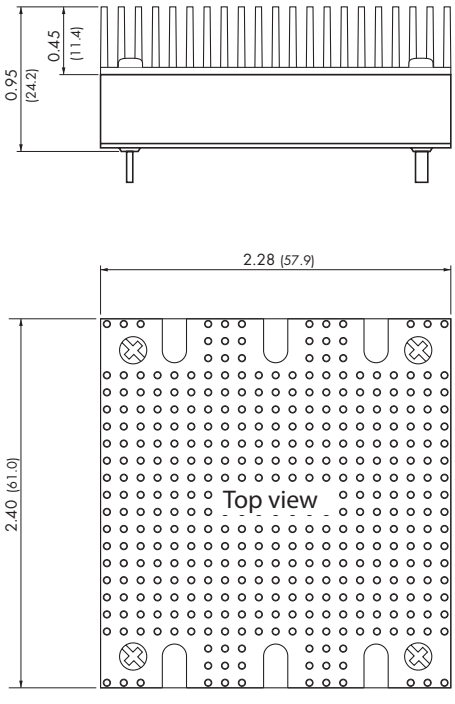
Weight: 97 g (3.42oz)

Pin diameter pin 5 & 9: 0.08 (2.0)
Pin diameter other pins: 0.04 (1.0)

Pin-Out	
Pin	
1	– Vin
2	Case
3	Remote On/Off
4	+ Vin
5	– Vout
6	– Sense*
7	Trim
8	+ Sense*
9	+ Vout

*Sense line to be connected to the output either at the module or at the load under regard of polarity.

Option Heatsink



Order code: **TEP-HS1**
Includes heatsink with termal pad and mounting screws
To order modules with mounted heatsink ask factory.

Weight: 135 g (4.76oz)
(Heatsink + Converter)

Dimensions in Inch, () = mm
Tolerances ±0.02 (±0.5)
Pin pich tolerances ±0.01 (±0.25)
Mounting hole pich tolerances ±0.01 (±0.25)